

### The Veritas identity & System Omega in the $\Lambda$ -model.

System Omega  $\omega = \left[ \frac{k}{m} \right]$  appears quite generally in Nature's Laws & familiar Physics identities & relationships.

The omega may be masked *historically* through variant essentially classical expressions yet can be discovered anew via '*trial by Algebra*'.

First we introduce a Platonik identity invented, discovered, or imagined by the Author and known as the Veritas equation, given here.

$$1. \quad h - dd . \lambda = h . \lambda - dd$$

$$1.a \quad \frac{h - dd . \lambda}{h . \lambda - dd} = 1$$

$[-dd]$  means 'double' - dot or  $\frac{d^2}{dt^2}$ , where  $[-dot]$  is likewise  $\frac{d}{dt}$

i.e. Newtonian dot notation is implied, albeit somewhat nuanced in a model parametrik sense, i.e. dots may *flow* freely under action of a system omega, and in this fluid or *fluxions* sense, a standard both-ways *time symmetry* is invoked. What is non-standard is that system time  $\{t\}s$  and system general force  $\{F\}s$  are synonymous, or actually identical with the system gamma  $[\gamma]s$ .

A model hypothesis is such that a '*time is force*' argument applies.

{ subscript  $[s]$  = 'system' as applied in the Lambda model } Also system Omega is negative system gamma, or

$$2. \quad \{ \omega = -ve \gamma \} s$$

Equation 2. is in effect **N.3.L. & Hooke's Law**  $[F = -kx]$ , or  $Fs = \{-ve \lambda . \lambda\}s$

in this model, 2.a.  $[\omega]s = -ve \{t\}s$  also.

We introduce **System Omega**: 3.  $\left[ \omega = \frac{mm}{\gamma^8} \right] s = [\gamma^{-3}]s$  also equivalently

$$3.a \quad \left[ \omega = \frac{k}{m} \right] s$$

this is the simple version, and reflects a '*wave - partikle*' **mutuality** in this model.

Where  $[k]s$  is the wave number of the system, classically  $\left[ k = \frac{1}{\lambda} \right]s$ , thus

$$3.b \quad \omega m \lambda = 1$$

& a model **de Broglie** expression can be inferred

$$4 \quad \lambda = \omega m \gamma$$

Where subscript  $[s]$  is generally implied going forward e.g. \* system lambda  $[\lambda] = [\lambda]s$

note system gamma = system lambda squared, in modulus sense

$$5. \quad [\gamma] = [\lambda^2]$$

and from 3. above  $[mm]$  must be  $\gamma^5$

or we get system mass  $[m]s$

$$6. \quad [m] = [\lambda^5]$$

We can see from previous identities that all parameters can be expressed in lambda or [k] numbers of any physical system under inspection.

By physical we mean  $\lambda s \neq 0$ , which implies also,  $m \neq 0$

Obviously the  $k$  – number is the reciprocal lambda number, etc, or classically

$$k^n = 1/\lambda^n$$

So if lambda cubed (classically a volume  $V$ ) yields energy,

$$\text{we may call this } m - \text{dot} = \left[ \frac{dm}{dt} \right] = \frac{m}{\gamma}$$

The reciprocal  $k$  – number scenario would be inverse volume or  $k^3$ , and we call that **acceleration**

$$\text{or, } \frac{d^2\lambda}{dt^2} = \text{lambda} - \text{dd} = \text{acceleration } [a] = k^3 = k - \text{dot} = [k/\gamma]$$

All identical we call this the **gravity pixel** in the lambda model,

And further add that  $[a]$  is identical with **negative mass**, or

$$[a] = -ve m = m - \text{dddd} = m - 4\text{dots} = \frac{m}{\gamma^4} = \frac{d^4[m]}{dt^4}$$


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The negative operator is  $\frac{1}{\gamma^4}$  and adds a  $\frac{1}{2}$  cycle clockwise rotation in the model

w.r.t horizontal the standard r.h.s.datum \* on a unit lambda complex wheel

Thus 2 negative operators in tandem gives 1 full c.w.rotation.

In essence system 'inertial mass' lies on  $\lambda^5$  a.c.w. &  $-ve$  mass lies on  $\text{lambda}^{-3}$  c.w.phase sense \*.

Mass having being divided by  $\text{lambda}^8$  here, as  $\gamma = \text{lambda}^2$ , stated previously.

**The model views inertial mass as Action, and  $-ve$  mass as reaction or  $-ve$  action.**

$$\text{Or, } \text{Action } 7. \quad \gamma.m - \text{dot} = m,$$

$$\& -ve \text{ Action } 8 \quad -ve[\gamma.m - \text{dot}] = -ve m$$

$$\text{can be } 8.a \quad -ve \text{ mass} = [-ve \gamma.m . \text{energy} (+) \gamma.m . -ve \text{ energy}]$$

[2]states in omegik superposition

$$\text{We note here that } -ve \text{ energy is } \left[ \frac{\text{lambda}^3}{\gamma^4} \right] = \left[ \frac{\lambda^3}{\lambda^8} \right] = \frac{1}{\lambda^5} = k^5 = 1/m \text{ reciprocal mass.}$$

Which supplies a useful model standard utilising  $[-m - \text{dot}] = \frac{1}{m}$  thus

$$9. \quad -ve [m.m - \text{dot}] = 1$$

and equivalent to

$$\text{Unity} = [-ve \text{ mass.energy}] (+) [-ve \text{ energy.mass}] \quad [2] \text{ states.}$$

*With a little work most if not all of the previous identities can be morphed into & flow thro each other,*

*and we quote some model standards with resonance to classical familiars.*

*from previous view w.r.t Action = m, -ve Action = -ve m = Reaction*

*The product of action x reation yields the Gamma 'force' or N.2.L. & U.L.G.*

$$10. \quad \gamma = -m.m \quad \text{identical to } F = ma$$

*And with a -ve Operator applied to 10. we get omega*

$$11. \quad \omega = -ve. -ve[m.m]$$

$$11.a \quad \omega = [ \{ - - m.m \} (+) \{ -m. -m \} + \{ m. - - m \} ] \quad [3] - \text{states}$$

*as acc = -ve mass then, -ve a = -ve . -ve mass*

$$-ve a = \left[ \frac{m}{\gamma^8} \right] = \frac{\lambda^5}{\lambda^{16}} = \frac{1}{\lambda^{11}} = k^{11}$$

$$\text{now } k^{11} = S - \text{dot} = \frac{S}{\gamma} = \frac{dS}{dt} \quad \text{i.e. entropy - rate}$$

$$\text{thus entropy } [S] = k^9 \quad \& \text{ a.c.w sense}$$

*Thus we can produce another model omega expression*

$$11.b \quad \omega = -ve. -ve [m.m]$$

$$\text{thus } 11.c \quad \omega = [mS] - \text{dot}$$

*& expanded to*

$$\omega = \{ [m - \text{dot} . S] (+) [m . S - \text{dot}] \}$$

$$\text{System Omega} = [\{ \text{energy} \times \text{entropy} \leftrightarrow (+) \leftrightarrow \text{mass entropy rate} \}]$$

*this last can help with darkness paradigms currently in vogue in Physik.*

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*The model views energy in the classical way, say in conventional*

*Newtonian, Hamiltonian or Lagrangian sense, i.e.*

*these express any dynamic system of kinetic & potential energy states in mutual fluxion/s.*

*This is m - dot in a general model sense, where the [-dot] operator is frequency, f = 1/t*

*thus the model contends,*

$$12. \quad [\lambda - \text{dot}]^2 = [\lambda . \lambda - dd] \text{ is likewise a frequency or } \left[ \frac{1}{\gamma} \right] \text{ expression.}$$

*as lambda-dot is a k-number, this is classically a velocity expression*

$$\text{Where } \lambda - \text{dot} = \left[ \frac{\lambda}{\gamma} \right] = \left[ \frac{dx}{dt} \right] = v, \text{ as lambda can be } \{x\} \text{ of course.}$$

So we may derive a grounding in 12. for *Fitzgerald - Lorentzian* effects, such as length contraction etc,

*A model maxim is developed.*

*Large Lambda schemes have low magnitude  $k$*

*– numbers, and thus very small acceleration number.*

*Conversely very small lambda schemes have very large magnitude  $k$*

*– number & thus very large acceleration.*

*We can further add*

*large schemes possess low magnitude entropy  $[S]$  & very low entropy rate  $[S]$*

*– dot, respectively.*

*Conversely large magnitude  $[S]$  & even higher for  $[\frac{dS}{dt}]$ , are experienced in micro*

*– lambda schemes.*

*A fearful symmetry seems apparent at Cosmological & quantum scales in Nature.*

*This maxim is counter to the standard view that the twain never meets in Quantum & Classical /Relativistic models, thus the idee fixe developed that, we absolutely must find a holy grail solution*

*such as quantum gravity to fix the disparity.*

*This is potentially a phenomenological perspective only, largely historical in basis,*

*& erroneous one might strongly suspect.*

*Physical lambda model adherents maintain that it is mistaken to mean*

*fundamentally different physics is at work here.*

*In the  $\lambda$  – model, scale is invariant and model Physik rules are quite general, regardless of size,*

*of any particular scheme/s under investigation.*

*Let's look at some examples:*

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$$\text{Keplers 3rd Law} \quad \frac{R^3}{T^2} = \text{constant } [k]$$

*Or in model terms,  $R = \{r\} = \{x\} = [\lambda]$  or system lambda, thus*

$$\begin{aligned} \frac{\lambda^3}{\gamma^2} &= \frac{\text{energy}}{\text{momentum}} = \frac{m - \text{dot}}{p} \\ &= \frac{m - \text{dot}}{\gamma^2} \\ &= \frac{m}{\gamma^3} \\ &= \omega m \end{aligned}$$

*& as product  $[\omega \cdot \text{mass}]$  equates to a system  $[k]$  – number*

*i. e.  $\omega m = k$ , Keplers costant is the  $k$  – no of our local Binary System or Newtonian  $G$*

*This allows us to gauge Solar scheme Omega at the Earth remove.*

*We use o. o. m. calculations and no units, or we end up with dimensionless ratios on occasion otherwise the S.I. relevant unit or units are always implied.*

*Let  $M = 10^{30}$ ,  $m = 10^{25}$ ,*

*& let system mass  $[m]s = \text{binary product } [Mm]$ , law of lever resonance.*

*and as the de Broglie yardstick is  $\lambda s = 10^{11}$*

$$\begin{aligned}
 \text{Then System Omega, gives, } \omega &= \frac{k}{m} \\
 &= \frac{1}{[m. \lambda]} = \frac{1}{[10^{55}. 10^{11}]} \\
 &= 10^{-66}.
 \end{aligned}$$

*And as Omega =  $a^2$  then our local system acc pixel – ve mass =  $\sqrt{[10^{-66}]}$*

*=  $-ve m = [a] = \text{modulus circa } [h] \text{ the Planck unit of Action,}$*

*we see it as  $-ve$  action of course.*

Dirac's relativistic electron eqn rendered into the model

$$m\{\psi\} = i.\gamma \frac{d[\psi]}{dx}$$

$$\text{in 1-d here say,} \quad \text{thus } \frac{d}{dx} = \frac{d}{d\lambda} = \frac{1}{\lambda} \text{ (approx.)} = [k]s$$

in our model imaginary  $\{i\}$  is equivalent to system momentum, thus

$$\{i\} = p = \gamma^2 = \lambda^4 = \sqrt{[m.m - dot]} = \sqrt{(-1)}$$

also, we can cancel Psi both sides, for clarity, i.e. the pared down model Dirac, now gives

$$m = k/\omega$$

Schrodinger

$$i\hbar - \text{bar } d\{\psi\}/dt = H\{\psi\}$$

$$\text{let } i = p \text{ as before,} \quad \& d/dt = -dot = \frac{1}{\gamma}$$

$$\& \text{ as } \hbar - \text{bar} = \left\{ \frac{h}{2\pi} \right\}, \quad \text{we ignore factor [2] as indicating perhaps 2-states.}$$

$$\text{We get,} \quad \{i - \hbar - \text{bar}\} - dot = \text{energy or,}$$

$$[ \{ i - dot.[\hbar - \text{bar}] \} \quad (+) \quad \{ i.[\hbar - \text{bar}] - dot \} ] = m - dot,$$

where we allow for a possibility of +ve/-ve energy on r.h.s.

$$\text{Firstly, } \hbar - \text{bar} = -ve \frac{\text{mass}}{(2)\pi}$$

$$= -mp, \quad \text{as } 1/\pi = p$$

$$= ap = k^3.\lambda^4 = \lambda \text{ in this case}$$

$$\text{then } \{i.\hbar - \text{bar}\} - dot \text{ gives,}$$

$$[p.\lambda] - dot = [ \{ p - dot.\lambda \} \quad (+) \quad \{ p.\lambda - dot \} ]s$$

$$\text{or [2] states } [ \{ p.k \} + \{ \gamma.\lambda \} ] = \text{energy} = \text{modulus } [ \lambda^3 ]$$

Now +ve energy = reciprocal acceleration (gravity) or, a.e = Unity

& if we plumb for -ve energy, that is identical to inverse mass.

So we see in the generalized T.D.S.E,

we have a very full exposition of the scheme, in either & both,

a dynamic Superposition of [2]states

$$-ve[\text{mass.energy}] = \text{Unity,} \quad \text{identically } [\text{acceleration} \times \text{energy}]$$

&/or

$$[\text{mass} . -ve \text{ energy}] = \text{Unity} = [m/m]$$

A system incorporating +ve & -ve aspects of mass, energy,

& gravity at face value and the system Omega within.

Maxwell & Faraday.

$$-\frac{dB}{dt} = \Delta X E$$

We state some assumptions, the minus sign here (−) is model −ve Operator

$B$  can be  $[m.\gamma] = \text{lambda}^7 \text{ unity wheel} * \text{peg coincident with both moment of inertia } [I]$ ,  
and also  $[S] = k^9$ , but we go with the former case here

$$\text{so, } \frac{dB}{dt} = \frac{[m.\gamma]}{\gamma} = m$$

$$\text{Likewise, } -ve \frac{dB}{dt} = -ve \text{ mass} = [a]$$

$$\{t\} = [\gamma]s, \quad \Delta = Del = \frac{d}{dx} \text{ in } 1-d, \text{ and thus } = [k]s$$

$E = -ve \text{ frequency}$ , and/or  $-ve. -ve[m.\lambda]s$  identically =  $-ve[\text{energy}^2]$  thus  $E$  yields  $1/mm$

& finally the classical  $[X]$  vector product, is also =  $-ve \text{ Operator} = \frac{1}{\gamma^4}$

we get,

$$a = del X E$$

$$= k. -ve \frac{1}{mm}$$

$$= -\frac{vek}{mm}$$

$$= \frac{S}{mm}$$

$$= k^9.k^{10} = k^{19}$$

Now  $k^{19}$  is coincident with the 'peg'  $[k^3] = [a]$

on the familiar unit –  $\lambda$  complex wheel

after 1 full c.w. rotation by  $k^{16}$ , thus

$$-ve \text{ mass} = a$$

Note: The model uses a \*Unity lambda complex wheel with `16 pegs set apart at intervals of  $[\pi/8]$

The general lambda  $[\lambda s]$

$$\text{System Lambda} = \left[ \lambda. e^{i.\frac{\pi}{8}} \right]^n \quad n = +/- \{ 0,1,2,3, \}$$

+ve integers yield  $\lambda^n$  and −ve integers  $k^n$

these, cycle in acw & cw sense rotation, respectively.

Maxwell cont.

Similarly on the unity wheel, we see [B] & [S] share a coincident peg,

therefore is [B] a micro lambda

*phenomenon* label for entropy [S], and of course visa versa?

$$\text{Say } \omega = \left[ \frac{mS}{\gamma} \right] = \left[ \frac{mB}{\gamma} \right]$$

$$= [mS] - \text{dot} = m - \text{dot}.S \quad (+) \quad m.S - \text{dot} \quad \&/\text{or}$$

$$= [mB] - \text{dot} = m - \text{dot}.B \quad (+) \quad m.B - \text{dot}$$

$$\text{Then } w/m = B - \text{dot} = k/mm = k.E$$

Thus we derive a familiar  $E = cB$  can be found

$$B = E.k\gamma = E.\lambda \quad \text{thus}$$

$$E = kB = cB \quad \& \text{ now } cS = kS = E = k^{10} \quad \text{and from}$$

$$w/m = B - \text{dot}$$

$$[-m.-m]/m = dB/dt \quad \text{then,}$$

$$-m = -dB/dt = [a], \text{ etc}$$

w.r.t to generic Platonik identities in the model there are many 2<sup>nd</sup> order equations or identities which allow for resonance with Classical ideas.

Generally any sensible *dummy parameter* [\$]

+ve /-ve will do to emulate  $\gamma. [\$] - \text{dot} = [\$]$  examples,

$$[\$] = \{ \text{mass}, \quad \text{lambda}, \quad \text{Hooke [K]}, \quad \text{entropy}, \quad \text{etc} \}$$

Which aligns well with another 2nd order type

$$[[\$] - \text{dot}]^2 = [\$] . [\$ - dd]$$

*and some notable examples are again lambda, mass, entropy, omega, & gamma, etc etc*

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Thus we may look at the System *gravity pixellation* from an array of

entropy or [B]-field and -ve mass or gravity *angle*,

aligning with some modern paradigms i.e. '*emergence phenomenon*'

linking perhaps,

system rate of entropy with -ve gravity, which is also, -ve.-ve mass.



Maxwell cont.

We'll approach it differently here, allowing a 2<sup>nd</sup> order gamma differential or double dot [-dd]

Acting on Maxwell's equations.

$$-\frac{d^2 B}{dt^2} = \Delta X \frac{dE}{dt}$$

in model terms,  $dE/dt = E - \text{dot} = 1/[mm\gamma]s = k^{12} = \omega^2$

so we get

$$[-vem]/\gamma = -\omega^2 \cdot k \quad \text{now transpose the gamma}$$

$$-ve \text{ mass} = -ve \omega^2 \cdot [\gamma k],$$

yields the familiar s.h.m. expression

$$-\omega^2 \cdot \lambda = a$$

### Lorentz Force equation

$$F = q [E + v \times B]$$

There are many routes through this to yield [+ve &/or-ve] force

i.e. [F] gives *gamma or omega* respectively.

The standard assumptions apply,

say charge = +ve or -ve, or +q, -q

Charge in this model is [m.k] gives [q] =  $\lambda^4$  or [p] perhaps,

& -ve[mk] = [-q] =  $k^4$  or [ $\pi$ ] perhaps

$$E = 1/mm = k^{10}$$

$$B = [m\gamma] = \lambda^7 \quad \text{or could be [S] = } k^9$$

We can say [X] product is -ve Operator or a standard multiplier {x}

Velocity [v] can be [c] &/or system k, of course.

Fun can be had & we get several reasonable results for variant input

& some feel,... *more natural than others*

### The Hamiltonian

$$(1) \quad dq/dt = +ve \partial H/\partial p$$

$$(2) \quad -ve dp/dt = \partial H/\partial q$$

*I'm allowing previous statements of wide latitude applies to the formalism*

*i.e. I often make no distinction between partial  $[\partial]$  &  $[d]$ ,*

*and indeed freely cancel these on most occasions.*

*Generally the Hamiltonian is relaxed to*

$$[H] = \text{composite 'system' energy} = m - \dot{m} = \frac{dm}{dt} \cdot \text{etc}$$

$$[q = \lambda], [p = \text{model momentum}], [t = \gamma], \text{etc}$$

*Thus, we get*

$$(1.a) \quad k = \omega m$$

$$(2.a) \quad \gamma = -ve [m - \dot{m}] \cdot k$$

$$\text{And as system gamma force} = [m \cdot k] - \dot{m} \cdot k = m \cdot k - \dot{m} \cdot k (+) m \cdot k - \dot{m} \cdot k$$

*And we can say l.h.s. gamma in (2.a) = omega, from  $\omega = -ve[\gamma]$  and general commutativity*

*w.r.t. the minus sign, i.e. classically this can transpose across the equality, etc.*

*Note: The model sees an easier way than previous example, whereby we suggest, very respectfully, that a -ve sign may be missing on l.h.s. of conventional Hamiltonian [2],*

*but we can largely bypass that by rewriting Hamiltonian 1 in model terms*

$$H1: \quad \lambda - \dot{m} = \frac{m - \dot{m}}{p} \quad k = \frac{\text{energy}}{\text{momentum}} = \pi \cdot [m - \dot{m}] = \left[ \frac{m}{\gamma^3} \right]$$

*then simply post a -ve sign on both sides of H1 to give,*

$$H2: \quad -ve \lambda - \dot{m} = \frac{-ve m - \dot{m}}{p}$$

*Applying the model mode, we get*

$$H1: \quad k = \omega m$$

*as before, & H2: gives  $[-ve k] = [-ve \text{ energy/momentum}]$ , or*

$$H2: \quad S = -ve[\omega \cdot m]$$

$$S = [ \{-ve \omega \cdot m\} \leftrightarrow (+) \leftrightarrow \{\omega \cdot -ve m\} ]$$

*or an entropy expression, where alternatively we could say, Hooke's constant is differentiated once w.r.t. gamma,*

$$[dK/dt] = K/\gamma = K - \dot{m} = [k^7/\gamma] = S$$

$$S = k^9 \quad \text{c.w. 'peg'}$$

Of course this begs the ask, why not differentiate model Hamiltonians once again or more

$$* H1 : \lambda - \dot{d} = \frac{m - \dot{d}}{p} \quad \text{gives } [a] = -ve \text{ mass}$$

$$* H2 : -ve \lambda - \dot{d} = \frac{-ve m - \dot{d}}{p} \quad \text{gives } -ve[a] = dS/dt$$

Nothing very extraordinary here as we could emulate these new model entries by a minor variant on Hamilton's originals, say for H1 alone, we could say.

$$H1.a: \quad \frac{\partial H}{\partial t} \cdot \frac{\partial t}{\partial p} = \frac{dq}{dt} \quad \text{allowing } \frac{dH}{dp} = \frac{dq}{dt}$$

$$\text{Or simplified to } \frac{H}{p} = \frac{\lambda}{t} \quad \text{or, } H \cdot t = p \cdot \lambda$$

that gives,  $\gamma \cdot m - \dot{d} = \text{mass}$  of course., as  $[p] = \lambda^4$

H1.a: is identical and could also be, a la mode

$$\gamma - \dot{d} \cdot \frac{\partial H}{\partial p} = q - \dot{d} \quad \text{allowing } [e/p] = k, \text{ \& energy} = pk = [pc] \text{ familiar}$$

$$\text{\& } [e \cdot \lambda] = p$$

And something similar but also inclusive of the -ve Operator both sides  
for remodelled H2, where we said H2 = -ve H1

$$-ve \left[ \gamma - \dot{d} \cdot \frac{\partial H}{\partial p} \right] = -ve [q - \dot{d}] \quad \text{allowing } [-ve \text{ energy}/p] = -ve \lambda$$

and as -ve energy = reciprocal mass, and -ve lambda = Hooke [K], we get  
 $1/mp = K - \dot{d}$

[K] is Hooke's constant, or reciprocal Moment of Inertia [1/I]

Then another Unity identity is found  $m \cdot p \cdot K = 1$

Now  $[m \cdot K] = [\lambda^5 \cdot \lambda^{-7}] = 1/\lambda^2 = \text{frequency}, f = 1/\gamma$

Thus  $1 = pf = p - \dot{d} = p/\gamma = [dp/dt] = \gamma^2/\gamma$  gives system gamma  $[\gamma]s = [F] = \{t\}$ , in this scheme.

Einstein, Planck, De Broglie & Heisenberg, et al

$$S.R. \ \& \ E = mc^2$$

*becomes energy =  $m - \dot{}$  = mass . frequency*

$$E = m . k^2$$

*The model invokes a direct constant of proportionality for the mass energy equivalence*

$$12. \quad \gamma . m - \dot{ } = m$$

*Which is a simple derivative from the system energy  $e = [\text{mass}/\gamma] = [dm/dt]$*

*Or the Action principle, as seen in Heisenberg's pared back Uncertainty Principle*

*Featuring energy & time in product, where he employs  $[h]$  as the minimum of action,*

$$E.t \geq h, \quad \& \text{ also used in } \Delta p . \Delta x \geq h$$

*Which can be pared back to yield Louis de Broglie's wave hypothesis*

$$\lambda = h/p$$

*the model explicitly allows for  $-ve$  mass =  $[h]$  thus we have [2] de Broglie's*

$$1. \quad m = p . \lambda$$

$$= +ve \text{ mass} = \text{momentum} \times \text{lambda} = \text{lambda}^5, \text{ locally } [Mm]$$

$$2. \quad -ve \ m = -ve[p . \lambda] = [ \{ -ve p . \lambda \leftrightarrow (+) \leftrightarrow p . -ve \lambda \} ]$$

$$= \text{lambda}^{-3}, \text{ locally } -ve [Mm] = [h]$$

*2. gives  $a = \pi . \lambda$ ,  $(+) p . K$  where  $p = \lambda^4$ , &  $K = k^7 = \text{Hooke's constant}$ .*

As we introduced de Broglie here, we see the **Photo – electric effect** and the **Einstein – Planck** relationship has similarly modelled omega attributes.

$$E = h \cdot \nu \quad \text{can possess (+ve/-ve) flavours,}$$

$$-ve E = -ve [\text{mass} \cdot \text{frequency}] = -ve m - \text{dot}$$

$$\& + ve E = m - \text{dot}$$

The combination can yield up model identity

$$-ve[\text{mass} \cdot \text{energy}] = 1$$

thus

$$[\text{mass} \cdot \text{energy}] = -ve 1$$

$$\text{Unity} = \lambda^0 \& \{n\} \times 2\pi \text{ repeats to } \lambda^{16} = \{2\}\pi, [\text{a. c. w.}], \text{ etc}$$

$$\text{And } -ve 1 = \lambda^8 \& \{n\} \times 2\pi \text{ repeats to } \lambda^{24}, [\text{c. w.}], \text{ etc}$$

Where  $+\frac{ve}{-ve} 1$  can be fashioned by various periodic  $\{k^n\}$  of course also, with  $1/2\pi$  [c. w.] sense application.

$$\text{w.r.t. the Photo – electric effect kinetic } E = h \cdot \nu - \emptyset$$

we see, that the work function Phi, can be seen as the need to overcome the  
– ve 'binding' energy perhaps, and in any case it is a  
re – working of the previously stated model identity..

The equivalence principle & G.R.

The model says -ve mass =  $a$  = gravity or 'curvature-geometry'

Thus  $a = k^3 = k - \dot{\phantom{x}} = 1/e$ , and 'geometrically = reciprocal Volume'

Now looking at

$$G_{\mu\nu} = 8\pi G T_{\mu\nu}$$

My assumptions are,  $G_{\mu\nu}$  yields 'gravity' [ $a$ ]

$T_{\mu\nu}$  is density  $\text{Rho} = \frac{\text{mass}}{\text{Volume}}$  or Boylesque gamma

Ignore factor [8] as states, or some such,  $G = k - \text{number}$ ,  $pi = 1/p = k^4 = 1/\gamma^2$

then we get

$$\text{Gravity} = \pi \cdot k \cdot \rho$$

$$= [k \cdot \rho] - \ddot{\phantom{x}}$$

$$= [k - \ddot{\phantom{x}} \cdot \rho] (+) [k - \dot{\phantom{x}} \cdot \rho - \dot{\phantom{x}}] (+) [k \cdot \rho - \ddot{\phantom{x}}]$$

$$= [\rho/m] + [a \cdot 1] + [k \cdot f] \quad 3 \text{ states}$$

The 2<sup>nd</sup> & 3<sup>rd</sup> term are  $a$ , & equivalent  $k - \dot{\phantom{x}}$  respectively

The 1<sup>st</sup> is equivalent to  $Y/m = 1/\text{energy}$

$$\text{Thus we retrieve } [-m \cdot m - \dot{\phantom{x}}] = 1$$

w.r.t. Boyle's Law,  $PV = \text{constant}$

can be,  $\gamma - \dot{\phantom{x}} \cdot m - \dot{\phantom{x}} = 1$ . Energy

or energy is the constant, gamma is the density, & pressure  $P = F/A = [\gamma/\gamma] = \gamma - \dot{\phantom{x}} = 1$ , & energy =  $\lambda^3 = \text{Volume}$

Hooke also deserves a mention as alike Kepler, he perhaps unwittingly pointed towards the model identity

$[-ve F = \text{Omega}]s$  with Hooke's law in 1660.

Nullius in verba.

There are multiple more examples I suggest, but hats off to Kepler in particular,

not to mention Tycho, & Kopernik, Galileo' eppur si muove' & with certainty, Bruno the Martyred one, had a stake also.

It seems a grand synthesis is in prospect, and lo! 'All Religions are 1'. [W. Blake]

& now these three remain

$$1 \cdot c \quad h - \ddot{\phantom{x}} \cdot \lambda \quad (+) \quad h - \dot{\phantom{x}} \cdot \lambda - \dot{\phantom{x}} \quad (+) \quad h \cdot \lambda - \ddot{\phantom{x}}$$

